

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
29 March 2001 (29.03.2001)

PCT

(10) International Publication Number
WO 01/21594 A1

(51) International Patent Classification⁷: **C07D 239/94,**
401/12, A61P 35/00, A61K 31/517

Cheshire SK10 4TG (GB). KEEN, Nicholas, John
[GB/GB]; Alderley Park, Macclesfield, Cheshire SK10
4TG (GB).

(21) International Application Number: **PCT/GB00/03556**

(74) Agent: **BRYANT, Tracey;** Astrazeneca, Global Intellectual Property, P.O. Box 272, Mereside, Alderley Park, Macclesfield, Cheshire SK10 4GR (GB).

(22) International Filing Date:
18 September 2000 (18.09.2000)

(25) Filing Language: English

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(26) Publication Language: English

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

(30) Priority Data:
9922156.6 21 September 1999 (21.09.1999) GB
9922152.5 21 September 1999 (21.09.1999) GB
9922159.0 21 September 1999 (21.09.1999) GB

Published:

(71) Applicant (for all designated States except MG, US): **ASTRAZENECA AB [SE/SE]; S-151 85 Södertälje (SE).**

— *With international search report.*
— *Before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments.*

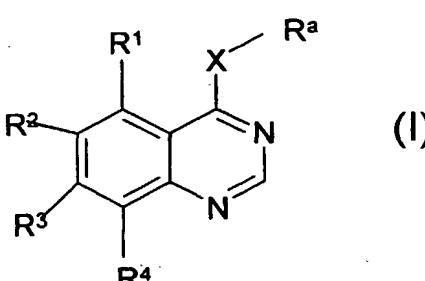
(71) Applicant (for MG only): **ASTRAZENECA UK LIMITED [GB/GB]; 15 Stanhope Gate, London W1Y 6LN (GB).**

(72) Inventors; and

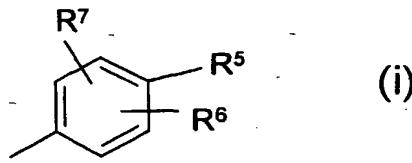
(75) Inventors/Applicants (for US only): **MORTLOCK, Andrew, Austen [GB/GB]; Alderley Park, Macclesfield,**

[Continued on next page]

(54) Title: QUINAZOLINE COMPOUNDS AND PHARMACEUTICAL COMPOSITIONS CONTAINING THEM



(57) Abstract: The use of a compound of formula (I) or a salt, ester or amide thereof; where X is O, or S, S(O) or S(O)₂, NH or NR⁸ where R⁸ is hydrogen or C₁₋₆alkyl; R^a is a 3-quinoline group or a group of sub-formula (i) where R⁵, R⁶ and R⁷ are various specific organic groups, in the preparation of a medicament for use in the inhibition of aurora 2 kinase. Novel compounds of formula (I) and pharmaceutical compositions useful in the treatment of cancer are also described and claimed.



WO 01/21594 A1